

Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (Horizontal and Vertical). The worst-case configuration and its corresponding results are documented in the test report.

NTN Band 23	Z axis, Vertical polarization
NTN Band 255	Z axis, Vertical polarization

NTN Band 23 QPSK CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
15 kHz	2	3990.00	-68.20	2.90	12.50	Vertical	-58.60	-13.00	45.60	14
	3	5985.00	-67.05	3.40	12.80	Vertical	-57.65	-13.00	44.65	36
	4	7980.00	-51.87	4.40	12.30	Vertical	-43.97	-13.00	30.97	228
	5	9975.00	-61.71	4.50	11.30	Vertical	-54.91	-13.00	41.91	27
	6	11970.00	-61.43	5.20	13.80	Vertical	-52.83	-13.00	39.83	36
	7	13965.00	-57.49	5.70	11.30	Vertical	-51.89	-13.00	38.89	185
	8	15960.00	-63.61	6.00	17.00	Vertical	-52.61	-13.00	39.61	52
	9	17955.00	-52.73	6.10	10.10	Vertical	-48.73	-13.00	35.73	13
	10	19950.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NTN Band 255 QPSK CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
15 kHz	2	3287.00	-71.51	2.20	12.70	Vertical	-61.01	-13.00	48.01	26
	3	4930.50	-42.31	3.40	12.50	Vertical	-33.21	-13.00	20.21	154
	4	6574.00	-62.62	3.80	11.50	Vertical	-54.92	-13.00	41.92	25
	5	8217.50	-40.20	4.30	12.30	Vertical	-32.20	-13.00	19.20	111
	6	9861.00	-61.92	4.50	11.30	Vertical	-55.12	-13.00	42.12	58
	7	11504.50	-49.72	5.90	11.90	Vertical	-43.72	-13.00	30.72	79
	8	13148.00	-59.33	5.70	14.00	Vertical	-51.03	-13.00	38.03	261
	9	14791.50	-57.90	5.80	13.10	Vertical	-50.60	-13.00	37.60	89
	10	16435.00	-62.08	6.00	16.10	Vertical	-51.98	-13.00	38.98	47

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.